Monday, 5/7/2007 9:56:25 AM

User:

Kim Johnston

Process Sheet

Customer Job Number : CU-DAR001 Dart Helicopters Services

: 32227

Estimate Number

: 10559

P.O. Number

MA.

This Issue : 5/7/2007 Prsht Rev.

S.O. No. : NA

: NC : 14 : 32226

Type : LANDING GEAR

Drawing Name

Part Number

: D412664203

Drawing Number

D412-664-243 REV D

: HIGH AFT X-TUBE 412

Project Number **Drawing Revision**

: N/A : D

Material **Due Date** : 717 : 6/10/2007

Each 1 Um:

Written By

First Issue

Previous Run

Checked & Approved By

Comment

: Est Rev:E 04.02.16

Est Rev:F 06-03-29 Reformat: Added D3189-1 K/DS Remove Coments on Pick List JLM

Est Rev:G 06.12.08 Est Rev:H 07-04-30

per ECN 886 As per Rev D

EC JLM

Additional Product

Job Number:



Seq. #:

Machine Or Operation:

Description:

DOCUMENT CONTROL

DC 1.0



Comment: DOCUMENT CONTROL

Photocopy bluefile and create labels as per PPP D412-664-203 CHG 006

D6009129

Crosstube Material



Comment: Qty.: 1.0000 Each(s)/Unit

Total:

1.0000 Each(s)

Pick:

Qty Part number **Description Batch** 1 D6009-129 Crosstube 26548

Check OD = 3.500"; ID = 2.250"

07,05.30

3.0

2.0

MORI SEIKI

MORI SEIKI CNC LATHE LARGE

Comment: MORI SEIKI CNC LATHE LARGE

1-Fill tube with sand & install plugs DT8534 on both ends as per Folio FA166

2-Turn first side as per Folio FA166

3-Deburr & Inspect for surface damage. Repair damage within limits as per Dwg D412-664-243.

4.0

QC1

INSPECT ALL DIM TO DIM SHEET



Comment: INSPECT ALL DIM TO DIM SHEET



(V)

D	art	: A	er	os	pac	ce	Ltd
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W/O:			WORK ORDER	CHANGES					
DATE	STEP	PR	ROCEDURE CHANGE	В	у [Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector
Part No		PAR #:	Fault Category:	NCR: `	res No	DQ/	A :	_ Date: _	
				Q	A: N/C	Closed	d:	_ Date: _	
NCR:			WORK ORDER NON-CON	IFORMANCE (N	ICR)				

NCR: WORK ORDER NON-CONFORMANCE (NCR)								
		Description of NC	(Corrective Action Section B			Approval	Amarova
DATE	STEP	Section A -	Initial Chief Eng	Action Description Chief Eng	Sign & Date	Verification Section C	Chief Eng	Approval QC Inspecto
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Monday, 5/7/2007 9:56:25 AM Date: Kim Johnston Üser: **Process Sheet** Drawing Name: HIGH AFT X-TUBE 412 Customer: CU-DAR001 Dart Helicopters Services Part Number: D412664203 Job Number: 32227 Job Number: ' Description : Seq. #: **Machine Or Operation:** MORI SEIKI CNC LATHE LARGE 5.0 MORI SEIKI Comment: MORI SEIKI CNC LATHE LARGE 1-Turn second side as per Folio FA166 2-Deburr & Inspect for surface damage. Repair damage within limits as per Dwg D412-664-243. 3- Remove sand and plugs 4-Scribe part # and batch # using vibrating stylus as per Dwg D412-664-243 Inside of Cuff(Donot engrave on outside of tube) 1 INSPECT ALL DIM TO DIM SHEET 6.0 QC1 (4) Comment: INSPECT ALL DIM TO DIM SHEET SECOND CHECK 7.0 QC8 Comment: SECOND CHECK LANDING GEAR RESOURCE 1 8.0 LANDING GEAR 1 Comment: LANDING GEAR RESOURCE 1 EL 7-6-6 1-Polish entire outside surface of crosstube INSPECT WORK TO CURRENT STEP 9.0 QC5 Comment: INSPECT WORK TO CURRENT STEP HAND FINISHING RESOURCE #1 HAND FINISHING1 10.0 Comment: HAND FINISHING RESOURCE #1 EL 7-6-7 Chemical Conversion Coat as per QSI 005 4.1 INSPECT POWDER COAT/CHEMICAL_CONVERSION 11.0 QC3 Comment: Inspect work & Chemical conversion Coat

Dart Aerospace Ltd	D	art	Ae	ros	pace	Ltd
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W/O:

W /O:		WORK ORDER CH	ANGES			
DATE	STEP	PROCEDURE CHANGE	Ву	Date Qt	y Approval Chief Eng / Prod Mgr	Approval QC Inspector
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Part No:	:	PAR #: Fault Category:	NCR: Yes	No DQA :	Date: _	
			QA: N	C Closed:	Date: _	

NCR:		W	ORK OR	DER NON-CONF	ORMANCE (N	CR)		·	• • •			
		Description of NC		Corrective Action	Section B		Verification	Approval	Approva			
DATE	STEP	STEP	STEP	STEP	Section A	Initial Chief Eng	Action Descri		gn & ate	Section C	Chief Eng	QC Inspecto
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Monday, 5/7/2007 9:56:25 AM Date: User: Kim Johnston **Process Sheet** Drawing Name: HIGH AFT X-TUBE 412 Customer: CU-DAR001 Dart Helicopters Services Part Number: D412664203 Job Number: 32227 Job Number: Description: Seq. #: Machine Or Operation: BENDING MACHINE 12.0 BENDING Comment: BENDING MACHINE Bend tube as per Dwg D412-664-243 using CNC bender program 412-af and Folio FT010 DIMENSIONAL CHECK OF X-TUBES QC15 13.0 CHECK OF X-TUBES LANDING GEAR RESOURCE 1 14.0 LANDING GEAR 1 Comment: LANDING GEAR RESOURCE 1 1-Drill pilot holes in tube as per Dwg D412-664-243 using drill Jig DT8550 & DT8551 2-Ream hole to finish size in tube as per Dwg D412-664-243using drill Jig DT8550 & DT8551.Che dimensions between holes, both sides on both cuffs, to ensure alignment with saddle holes. 3-Deburr & Inspect for surface damage. Repair damage within limits as per Dwg D412-664-243 HAND FINISHING RESOURCE #1 15.0 HAND FINISHING1 Comment: HAND FINISHING RESOURCE #1 Chemical Conversion Coat as per QSI 005 4.1 . INSPECT POWDER COAT/CHEMICAL CONVERSION QC3 16.0 POWDER COAT/CHEMICAL CONVERSION INSPECT WORK TO CURRENT STEP -17.0 QC5 Comment: INSPECT WORK TO CURRENT STEP **OUTSIDE SERVICES -LG** 18.0 Comment: Sub-Contracting OUTSIDE SERVICES 7.7.27 Liquid Penetrant Inspection as per QSI 038Or U Issue P/O: 41 ne LPI as per ASTM 1417 Level 2 Attach copy of NDT results to work order

W/O:		WORK ORDER CHANG	GES				
DATE	STEP	PROCEDURE CHANGE	Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector
		٠					
Part No	_	PAR #: Fault Category:	NCR: Yes	N. DO		Date:	

QA: N/C Closed: ____ Date: ___

NCR:		W	WORK ORDER NON-CONFORMANCE (NCR)							
		Description of NC		Corrective Action Section B		Verification	Approval	Approval		
DATE	STEP	Section A	Initial Chief Eng	Action Description Chief Eng	Sign & Date	Section C	Chief Eng	QC Inspector		
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Monday, 5/7/2007 9:56:25 AM Date: User: Kim Johnston **Process Sheet** Drawing Name: HIGH AFT X-TUBE 412 Customer: CU-DAR001 Dart Helicopters Services Part Number: D412664203 Job Number: 32227 Job Number: Description: Seq. #: **Machine Or Operation:** PACKAGING RESOURCE #1 PACKAGING 1 19.0 Comment: PACKAGING RESOURCE #1 Inspect for transit damage Ensure copy of NDT results attached to work order. INSPECT/WORK TO CURRENT ST 20.0 QC5 Comment: Inspect for damage & ensure results are as per Dwg D412-664-203 SPRAY PAINTING SPRAY PAINTING 21.0 Comment: SPRAY PAINTING 1-Prime inside and outside crosstube as per QSI 005 4.2 2-Paint outside crosstube with White Imron as per QSI 005 4.2 INSPECT SPRAY PAINT 22.0 QC14 Comment: Inspect Spray Paint Wrap in plastic bag to protect from scratches 23.0 D3595 Rubber Cushion (per sq ft) Total: Comment: Qty.: 0.0492 sf(s)/Unit 0.0492 sf(s)Rubber Cushion (per sq ft) .630" x5.70" x2pcs 07-08-16 Batch: 3383 24.0 D2856600 Comment: Qty.: 1.7640 f(s) 1.7640 f(s)/Unit Total: Pick: Description Batch Qty Part number 2 D2856-600(Cut to 10.090") Abrasion Strip D28961 25.0 Comment: Qty.: 1.0000 Each(s)/Unit Total: 1.0000 Each(s) Pick: Qty Part number **Description Batch** 300 DC 1 D2896-1 Support

Dart Ae	rospace l	Ltd								
W/O:			W	ORK ORDER CH	ANGES					
DATE	STEP	PR	OCEDURE CHA	ANGE		Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector
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		Description of NC		Corrective Action	Section B		Verifica	tion	Annessal	Ammuoval
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Monday, 5/7/2007 9:56:25 AM Date: Kim Johnston User: **Process Sheet** Drawing Name: HIGH AFT X-TUBE 412 Customer: CU-DAR001 Dart Helicopters Services Part Number: D412664203 Job Number: 32227 Job Number: Description: Seq. #: **Machine Or Operation:** Chafing Shield 26.0 D31891 2.0000 Each(s) 2.0000 Each(s)/Unit Total: Comment: Qty.: Pick: Qty Part number **Description Batch** 2 D3189-1 Chafing Sheild MS2192028 Clamp(per MIL-DTL-8783C) 27.0 4.0000 Each(s) Comment: Qtv.: 4.0000 Each(s)/Unit Total: Pick: **Description Batch** Qty Part number ml or 08 15 Clamp <u>1838</u>9 4 MS21920-28 clamp(per MIL-DTL-8783C) 28.0 MS2192030 Comment: Qtv.: 2.0000 Each(s)/Unit Total: 2.0000 Each(s) clamp(per MIL-DTL-8783C) LANDING GEAR 1 29 0 Comment: LANDING GEAR RESOURCE 1 Assemble as per Dwg D412-664-203 1-Install supports with magnobond as per QSI 015 Adhere for for 12 Hrs Batch: 104723 6398 Magnobond Expiry Date: 10/2008 2-Install clamps as per Dwg D212-664-141. Torque clamps to 80-100 in lb. INSPECT WORK TO CURRENT STEP 30.0 QC5 Comment: INSPECT WORK TO CURRENT STEP PACKAGING RESOURCE #1 31.0 PACKAGING 1 Comment: PACKAGING RESOURCE #1 Pick Packing Kit

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W/O:			WORK ORDER	CHANGES				
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		Description of NC		Corrective Action Section B			Annewal	Annzoval
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Date: User:	-	Monday, Kim Johns		7 9:56:25 AM		Process	Sheet			
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Jo	b Numl	ber: 3222	27				Part Number	r: D412664203		
Job N	lumber:									
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				100% KITS FOR	COMPLETEN	NESS PACKAGING F	COURCE #4	02/0	18/20	
	37.0	PAC	KAGING			PACKAGING	RESOURCE #1			
	Con			ING RESOURCE						
		ld	entify a	nd pack for shippir	g as per PPP	D412-664-203	i			
			****Ensi	ure tube is not pac	kaged if curing	g time is less th	nan 12 hrs, se	ee step 27 for	application time & c	date
		Ţi	me & d	ate of packaging:_	G 1801FD	00;00	AM.	,		
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Date:

Monday, 5/7/2007 9:56:25 AM

User:

Kim Johnston

Process Sheet

Customer: CU-DAR001 Dart Helicopters Services

Drawing Name: HIGH AFT X-TUBE 412

Job Number: 32227

Part Number: D412664203

Job Number:



Seq. #:

Machine Or Operation:

Description:

38.0

QC21

FINAL INSPECTION/W/O RELEASE





Comment: FINAL INSPECTION/W/O RELEASE

Job Completion



W 67=08.20

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W/O:			WORK ORDER	CHANGES				
DATE	STEP		PROCEDURE CHANGE	Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approvai QC Inspector
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		Description of NC		Corrective Action Section B	Verification	Approval Chief Eng	Approval QC Inspector			
DATE	STEP	Section A			Sign & Date			Section C		
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DART AEROSPACE LTD	Work Order:	32221
Description: Crosstube Assembly (412 High Aft)	Part Number:	D412-664-243
Inspection Dwg: D412-664-243 Rev: 8 0 84 03 294 07		Page 1 of 1

FIRST ARTICLE INSPECTION CHECKLIST

X First Article Prototype

		spection Sheet wing Dimension	Tolerance	Actual Dimension	Accept	Reject	Method of Inspection	Comments
		2.684	+0.005/-0.000	7.686	~			
		2.748	+0.005/-0.000	7.752	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \			
		2.884	+0.005/-0.000	7-848				
		3.019	+0.005/-0.000	3.023	V			
		3.163	+0.005/-0.000	3.167	/			
		3.308	+0.005/-0.000	3.312	>			
	٧	3.429	+0.005/-0.000	3.433	V			
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		3.019	+0.005/-0.000	3.023	レ			
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Measured by: Audited by: Prototype Approval: N/A

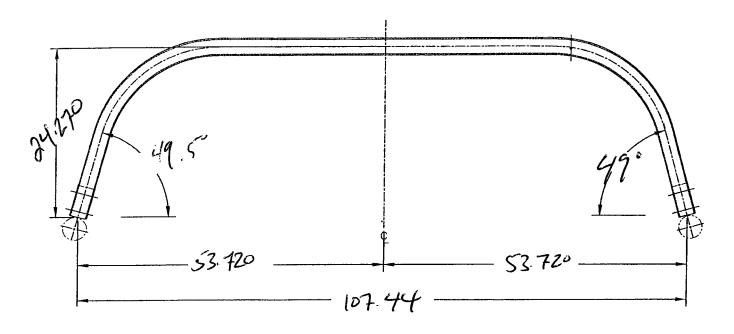
Date: Date: Date: N/A

Rev	Date	Change	Revised by	Approved
Α	04.06.16	New Issue (P/O D412-664-203)	KJ/JLM .	1
В	06.03.09	Dwg Rev updated	KJ/JLM X	adl
			, ()	7~7

DART AEROSPACE LTD	Work Order:	32221
Description: Crosstube High Aft (412)	Part Number:	D412-664-203
Inspection Dwg: D412-664-243 Rev:		Page 1 of 1

F# 07.04.07

Required Dimension	Min	Max	
Height	24,24 24.31	24.43	
1/2 Span	53.59 53.66-	53.78	53.35 (07.04
Angle	49	52) 07.0
Total Span	107.13 107.32	1 07.5 6	107.70



Comments						
tube & Symatrica,	/					
<i>(</i>	<i>t</i>					
QC15 Inspection	En.					

Rev	Date	Change	Revised by	Apprøved
Α	07.02.06	New Issue	KJ/JM	fr



DESIG	9H	DRAWN BY	DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA
CHEC	KED	APPROVED	DRAWING NO. REV. D
	q)		D412-664-243 SHEET 1 OF 3
DATE			TITLE SCALE
07.	03.09		CROSSTUBE ASSEMBLY (412 HI AFT) NTS
Α		01.10.17	NEW ISSUE
В		05.02.04	ADD HOLES FOR COMPATABILITY WITH BHT/AA SKIDTUBES
С		06.10.27	REMOVE D2856-600-1087, ADD D2732-058 & MAGNOBOND 6398 MS21920-32 WAS MS21920-30
D		07.03.09	REMOVE D2732-058, CHANGE TO

D3595-063-570

Qty	Part Number	Description
Х	D412-664-243	CROSSTUBE ASSEMBLY (412 HIGH AFT)
1	D6009-129	CROSSTUBE
2	D3595-063-570	RUBBER CUSHION
1	D2896-1	SUPPORT
2	D2856-600-1009	ABRASION STRIP
4	MS21920-28	CLAMP
2	MS21920-30	CLAMP (OR MS21920-32)
2	D3189-1	CHAFING SHIELD
A/R	MAGNOBOND 6398	ROCKWELL SPECIFICATION RBO-120-023 ADHESIVE (TEXTRON/BELL SPEC. 299-947-100 TYPE II, CLASS 2 ADHESIVE)

GENERAL NOTES:

- TOLERANCES ARE PER DART QSI 018 UNLESS OTHERWISE NOTED.
- MATERIAL: MANUFACTURED FROM D6009-129 FINISHED LENGTH = 124.09±0.020
- FINISH: CHEMICAL CONVERSION COAT PER DART QSI 005 4.1 PRIME INSIDE AND OUTSIDE PER DART QSI 005 4.2 PAINT OUTSIDE PER DART 005 4.2
- PART IS SYMMETRIC ABOUT CENTERLINE.
- RUN-OFF PART, BLEND OUT EDGE LONGITUDINALY, TRANSITION SHOULD BE SMOOTH
- BEND PROGRESSIVELY WITH A MINIMUM OF 8 PASSES. MAXIMUM TUBE FLATTENING DUE TO BENDING IS 6% BASED ON O.D.
- LIQUID PENETRANT INSPECT OUTSIDE SURFACE OF CROSSTUBE PER QSI 038.
- SCRIBE DART PART NUMBER AND BATCH NUMBER IN THIS AREA WITH VIBRATING STYLUS.
- INSTALL D2856-600-1009 ABRASION STRIP WITH A 0.13 (REF) GAP ON BOTTOM SIDE OF CROSSTUBE PER QSI 035.
- 10) EXTREME CARE MUST BE TAKEN TO PROTECT THE OUTSIDE SURFACE OF THE TUBE. THE OUTSIDE SURFACE MUST BE SMOOTH AND FREE FROM SURFACE DEFECTS SUCH AS SCRATCHES, NICKS, OR DENTS. DEFECTS UP TO 0.005" MAY BE BLENDED OUT LONGITUDINALLY. CIRCUMFERENTIAL GRIND MARKS ARE UNACCEPTABLE.

RETURN TO **ENGINEERING**

SHOP COPY

D2896-1 THAT WILL BE IN CONTACT WITH THE CROSSTUBE PER QSI 015. LET CURENCONTROLLED COPY FOR 12 HOURS AFTER INSTALLATION AND REIGHT. SUBJECT TO AMENDMENT FOR 12 HOURS AFTER INSTALLATION AND PRIOR TO PACKAGING. 12) INSTALL MS21920-30 CLAMPS (OR -32) WITH D3595-063-570 RUBBER CUSHIONS TO

SECURE D2896-1 SUPPORT ON TOP SIDE OF THE CROSSTUBE. ENSURE CLAMPS ARE OPPOSITE CROSSTUBE SUPPORT.

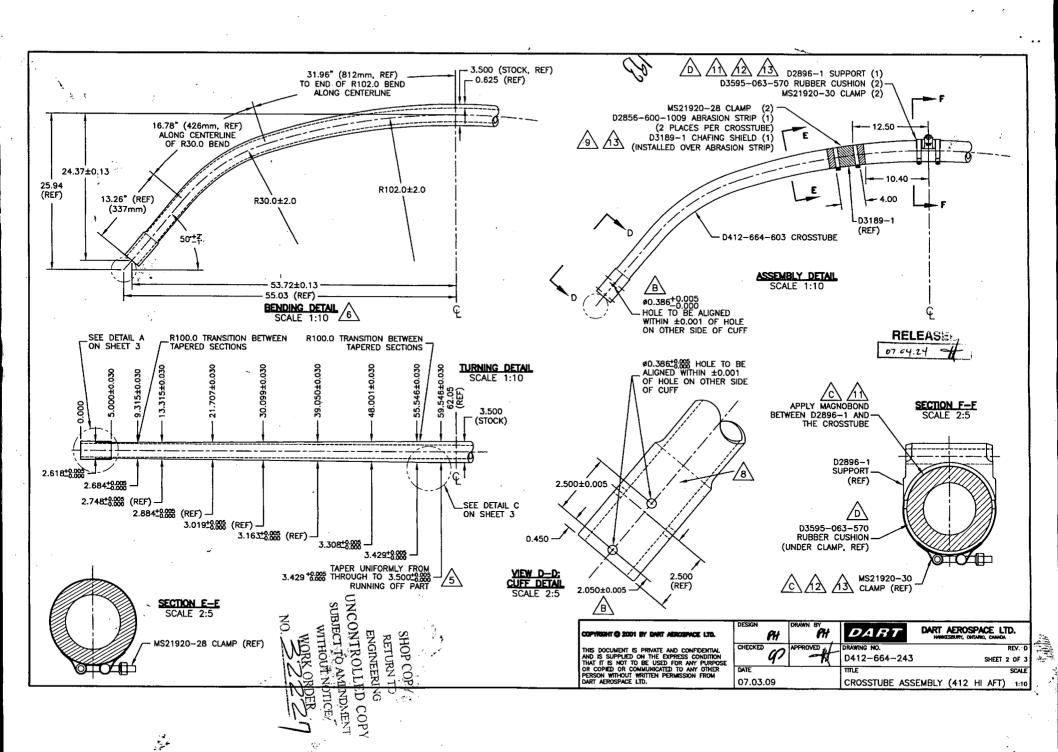
11) APPLY A 0.03" TO 0.06" THICK LAYER OF MAGNOBOND 6398 TO THE SURFACE OF

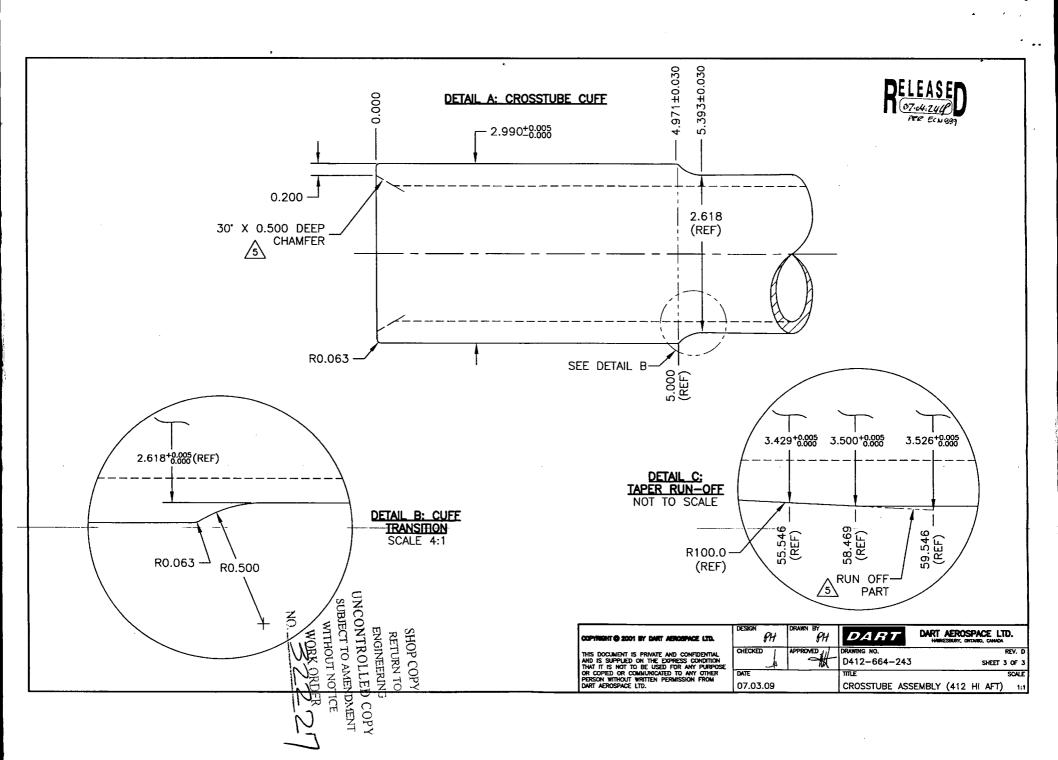
13) TORQUE CLAMPS 80 TO 100 IN-LB. ENSURE AT LEAST 1.5 THREADS SHOWING IN SAFETY AND THAT NUT HAS NOT BOTTOMED-OUT AFTER TORQUING.

WITHOUT NOTICE WORK ORDER

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Heath∆

681 Ave. Lepine, Dorval, Québec H9P 1G3 Tél.: (514) 636-1000 • Fax: (514) 636-0031 W.O. Νº 37039

A.M.O. Number: 46/90

NON-DESTRUCTIVE TESTING REPORT

/ COMPONENT IN		

REGISTRATION:	
---------------	--

MODEL/TYPE:

SERIAL NUMBER:

TOTAL HR/LDG:

OPERATED BY:

BASED AT:

INSPECTION REQUIREMENTS

Carry out FPI of six (6) cross tubes (external surface) as per ASTM E-1417-05 and the Dart QSI 038, Section 4.1.1 (on file at client) - parts delivered to HeathAir.

Oty. (1) P/N D212-664-201

S/N B32680

Qty. (2) P/N D212-664-101 S/N's B32673 & B32674

P/N D412-664-203 Qty. (3)

S/N's B32228, B32226 & B32227

RADIOGRAPHY	
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ULTRASONIC

PENETRANT

MAGNETIC PARTICLE

EDDY CURRENT

INSPECTION REPORT

Fluorescent penetrant inspection was performed in accordance with the above requirements on six (6) cross tubes.

Note: A Level 3 penetrant was substituted for the requested Level 2 (3 is more sensitive)

Ardrox 970P25E Batch #04B503.

Six (6) cross tubes PASSED inspection.

THE MAINTENANCE DESCRIBED ABOVE HAS BEEN PERFORMED IN ACCORDANCE WITH THE APPLICABLE STANDARDS OF AIRWORTHINESS

August 1, 2007

INSPECTED BY:

INSPECTION Not Required

CUSTOMER INFORMATION

CUSTOMER Dart Aerospace

P.O. NUMBER

4266

ADDRESS:

1

CONTACT NAME:

LABOUR	@	\$
MATERIALS	@	
TRAVEL EXPENSES	@	GST
HOTEL EXPENSES	@	PST

INVOICE NO.

TOTAL \$

W/O:		WORK ORDER CHANGES				ý	0
DATE	STEP	PROCEDURE CHANGE	Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector
	001	Strip x-tubes to remove pount i primer.	AB.	010813	l		
A0813	20.1	Polish toses to venicue cicum ancial mmiks, by Polishing logitudally with a bowel grindle.	JD_	7-8-13	l	-	1008-13
0.	1.000	Inspect the surface Pinish Lozos.13 0	2	07-08-13	1	Pasiouz	7 0700 15
	4	Atoma Chemicial conversion cost per QSI 005 4.1	30	7-8-13	1_		
		Proceed with step 21.0	NJA		>		
				<u> </u>	<u> </u>	<u> </u>	

Part No:	PAR #: Fault Category:	 NCR: Yes No DQA:	Date: 07/08/29
		QA: N/C Closed:	Date:

NCR:				DER NON-CONFORMANCE (M			1 1	
DATE STEP	Description of NC		Corrective Action Section B		Verification	Approval	Approval	
	STEP	Section A	Initial Chief Eng		ign & Date	Section C	Chief Eng	Approval QC Inspector
: :	2	v						
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• .						.		